

Release notes for ENDF/B Development n-041_Nb_095
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=4131, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=4131, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      230 TO      307
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=4131, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=4131, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      230
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4131, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      309
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      666
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      702
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      733
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      753
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 764

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 770

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 784

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 796

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 33
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 804

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 812

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 832

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 850

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 54 | RECORD NUMBER | 868 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 55 | RECORD NUMBER | 885 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 56 | RECORD NUMBER | 902 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 57 | RECORD NUMBER | 918 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 58 | RECORD NUMBER | 933 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 59 | RECORD NUMBER | 948 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 60 | RECORD NUMBER | 962 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 61 | RECORD NUMBER | 976 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 3, MT= 62 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 62 | RECORD NUMBER | 989 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 63 | RECORD NUMBER | 1002 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 64 | RECORD NUMBER | 1015 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 65 | RECORD NUMBER | 1027 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 66 | RECORD NUMBER | 1039 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 67 | RECORD NUMBER | 1050 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 68 | RECORD NUMBER | 1061 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 69 | RECORD NUMBER | 1071 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4131~~, MF= 3, MT= 70 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 70 | |
| | SECTION 3/ 70 NOT IN DIRECTORY | RECORD NUMBER 1081 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT= 91 | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER 1091 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT=102 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT=102 | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 1100 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT=103 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT=103 | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 1125 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT=104 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT=104 | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 1140 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT=105 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT=105 | |
| | SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 1153 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT=106 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT=106 | |
| | SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 1165 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 3, MT=107 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4131, MF= 3, MT=107 | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1175 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
~~MAT=4~~131, MF= 4, MT= 2 (0): Directory (b)

- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 2 | RECORD NUMBER | 1192 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 16 | RECORD NUMBER | 1391 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 17 | RECORD NUMBER | 1402 |
| SECTION 4/ 17 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 22 | RECORD NUMBER | 1413 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 28 | RECORD NUMBER | 1424 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 32 | RECORD NUMBER | 1435 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 33 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 33 | RECORD NUMBER | 1446 |
| SECTION 4/ 33 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 51 | RECORD NUMBER | 1457 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 52 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 52 | RECORD NUMBER | 1482 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 53 | RECORD NUMBER | 1507 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 54 | RECORD NUMBER | 1532 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 55 | RECORD NUMBER | 1557 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 56 | RECORD NUMBER | 1582 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 57 | RECORD NUMBER | 1605 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 58 | RECORD NUMBER | 1628 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 59 | RECORD NUMBER | 1651 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 60 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 60 | RECORD NUMBER | 1674 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 61 | RECORD NUMBER | 1697 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 62 | RECORD NUMBER | 1720 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 63 | RECORD NUMBER | 1743 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 64 | RECORD NUMBER | 1766 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 65 | RECORD NUMBER | 1789 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 66 | RECORD NUMBER | 1812 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 67 | RECORD NUMBER | 1835 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 68 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 68 | RECORD NUMBER | 1858 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 69 | RECORD NUMBER | 1881 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 70 | RECORD NUMBER | 1904 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 4, MT= 91 | RECORD NUMBER | 1927 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 16 | RECORD NUMBER | 1951 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 17 | RECORD NUMBER | 2004 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 22 | RECORD NUMBER | 2032 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 28 | RECORD NUMBER | 2224 |
| SECTION 5/ 28 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 32
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 2328

72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 33
SECTION 5/ 33 NOT IN DIRECTORY RECORD NUMBER 2383

73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2432

74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF=33, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF=33, MT= 2
SECTION 33/ 2 NOT IN DIRECTORY RECORD NUMBER 2536

75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 2626

76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 2680

77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4131, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4131, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY RECORD NUMBER 2692

• **psyche** Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 3.50417E+06 DISSAGREES WITH THE GIVEN Q 3.68970E+06 (0): Iffy Q

FILE 3
SECTION 107
THE CALCULATED Q 3.50417E+06 DISSAGREES WITH THE GIVEN Q 3.68970E+06

• **recent** Warnings:

1. Fission widths given for non-fissile nucleus, but are zero
0: *Fission?*

```

Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria-----          MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background-      Output (Resonance Contribution)
... [615 more lines]

```

- fudge-4.0 Warnings:

1. The URR for this spin group needs higher energy resolution for correct representation of the average cross section
resonances / unresolved (Error # 0): URRinsufficientEnergyGrid

```

WARNING: More points needed in L=0 J=4.0 unresolved widths between 25. eV and 1.e2 eV
WARNING: More points needed in L=0 J=5.0 unresolved widths between 25. eV and 1.e2 eV
WARNING: More points needed in L=1 J=3.0 unresolved widths between 25. eV and 1.e2 eV
WARNING: More points needed in L=1 J=4.0 unresolved widths between 25. eV and 1.e2 eV
... plus 8 more instances of this message

```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.78%

```

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Nb95): / Form 'eval': / Component 0 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Nb95): / Form 'eval': / Component 1 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (n[multiplicity:'2'] + Nb94): / Form 'eval': (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Nb96 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

```

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

```

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Nb96 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 22: n[multiplicity:'2'] + Nb94 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8526788.815887451 eV vs -8495490. eV!

2. Calculated and tabulated Q values disagree.
reaction label 23: n[multiplicity:'3'] + Nb93 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15754330.99278259 eV vs -1.57297e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 24: n + H1 + Zr94 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6842107.619781494 eV vs -6816230. eV!

4. Calculated and tabulated Q values disagree.
reaction label 25: n + H2 + Zr93 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -12838656.23199463 eV vs -1.27294e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 26: n + H3 + Zr92 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13315898.65585327 eV vs -1.3281e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 27: Nb96 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 6855039.896697998 eV vs 6892890. eV!

7. Calculated and tabulated Q values disagree.
reaction label 28: n + He4 + Y91 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2899858.150039673 eV vs -2858890. eV!

8. Calculated and tabulated Q values disagree.
reaction label 29: H1 + Zr95_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -379860.4590606689 eV vs -340631. eV!

9. Calculated and tabulated Q values disagree.
reaction label 30: H2 + Zr94_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4617541.518844604 eV vs -4506110. eV!

10. Calculated and tabulated Q values disagree.
reaction label 31: H3 + Zr93_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6581423.291381836 eV vs -6544260. eV!

11. Calculated and tabulated Q values disagree.
reaction label 32: He3 + Y93_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9456711.115737915 eV vs -9415320. eV!

12. Calculated and tabulated Q values disagree.
reaction label 33: He4 + Y92_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 3639755.180267334 eV vs 3.6897e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group...compute self-shielded group-averaged cross-sections (0): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group...compute self-shielded group-averaged cross-sections (1): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group...compute self-shielded group-averaged cross-sections (2): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group...compute self-shielded group-averaged cross-sections (3): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group...compute self-shielded group-averaged cross-sections (4): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided